

What is claimed is:

1. PET resin hinge processed goods, made of solid mold method consisting of one part, utilizing PET resin raw material with improved fluidity, higher transparency, and stronger shockproof property modified with co-polymerization and compound technology, wherein the thinnest part of the hinge is more than 0.2 mm, and the parts connected to the hinge is set thicker than the thinnest part.
2. PET resin hinge processed goods according to Claim 1, wherein the cross-section of the thinnest part of the hinge is in a plate form with thickness being more than 0.2 mm, there being one or more thin hinge parts.
3. PET resin hinge processed goods according to Claim 1, wherein the cross-section of the thinnest part of the hinge is in a linear form, with the thickness becoming gradually thicker to both sides in taper form from the peak line, there being one or more thin hinge parts.
4. PET resin hinge processed goods according to Claim 1, wherein the thinnest part of the hinge is a circular form rolling a flat plate with thickness of the thinnest part being more than 0.2 mm.
5. PET resin hinge processed goods according to Claims 1, 2, 3 and 4, which is a container to contain and pack disposable medical apparatus, to re-pack used apparatus at time of disposal, then the apparatus is sealed and disposed.
6. PET resin hinge processed goods for packing used disposable medical apparatus according to Claim 5, which is a sterilized medical apparatus container which can be sealed and wrapped conducting heat-seal process of sheets which can be sterilized, sheets such as sterilized paper, film, or Tyvek on the top part of the main part where an apparatus is to be contained, to improve air-tightness and antiseptic feature, sterilized with ethylene oxide gas or radiation sterilization to improve air-tightness and antiseptic features.
7. PET resin processed goods for packing disposable medical apparatus according to Claim 6, which is a sterilized medical apparatus container which can be sealed and wrapped conducting heat-seal process of sheets which can be sterilized, sheets such

as sterilized paper, film, or Tyvek on the top part of the main part where an apparatus is to be contained, to improve air-tightness and antiseptic feature, the lid is closed and the whole external part is furthermore sealed with heat seal with bag-like wrapping material which can be sterilized such as sterilized paper, film, Tyvek and such.

8. PET resin hinge process hinge goods according to Claims 1, 2, 3 and 4, which are apparatuses used in physics and chemistry experiments such as test tubes, Messzylinder, liquid measure, beaker, petri dish, cup, blood collecting tube, disposable cell, reagent bottle, sediment tube, centrifuge tube, these apparatuses which can be closed and sealed after placing the content inside, with the lid which is made in solid mold method, for further experiment testing or for storage.
9. PET resin physics and chemistry experiment apparatuses according to Claim 8, wherein the whole apparatus is sealed and packed inside a packaging which can be sterilized such as sterilized paper, film, Tyvek and such, sterilized with ethylene oxide gas or radiation.
10. PET resin hinge processed goods according to Claims 1, 2, 3 and 4, which is a slide glass for microscope observation and storage of samples, which has a hollow circle on the surface of the oblong slide on which to place the sample, and which can be closed and sealed with a lid which is solid molded via a hinge.
11. PET resin slide glass according to Claim 10 wherein the whole slide is wrapped and sealed with a packaging which can be sterilized such as sterilized paper, film, or Tyvek and such, and is sterilized with ethylene oxide gas or radiation.
12. PET resin hinge processed goods according to Claims 1, 2, 3 and 4, which is a pair of spectacles that is made of solid mold method having the lens, lens frame, and the side frame are all made from one mold, there being a hinge between the lens frame and the side frame, and can be mass produced at affordable cost.
13. A manufacturing method of PET resin hinge processed goods according to Claims 1, 2, 3, 4, 6, 7, 9 and 11, which is a method to manufacture and process hinge processed goods with injection mold method from PET resin raw material, wherein the temperature of the cylinder of the injection molding machine is set at 240 to 285

degrees centigrade, the speed of the injection is set at low to middle speed.

14. A manufacturing method of PET resin hinge processed goods according to Claim 5, which is a method to manufacture and process hinge processed goods with injection mold method from PET resin raw material, wherein the temperature of the cylinder of the injection molding machine is set at 240 to 285 degrees centigrade, the speed of the injection is set at low to middle speed.
15. A manufacturing method of PET resin hinge processed goods according to Claim 8, which is a method to manufacture and process hinge processed goods with injection mold method from PET resin raw material, wherein the temperature of the cylinder of the injection molding machine is set at 240 to 285 degrees centigrade, the speed of the injection is set at low to middle speed.
16. A manufacturing method of PET resin hinge processed goods according to Claim 10, which is a method to manufacture and process hinge processed goods with injection mold method from PET resin raw material, wherein the temperature of the cylinder of the injection molding machine is set at 240 to 285 degrees centigrade, the speed of the injection is set at low to middle speed.
17. A manufacturing method of PET resin hinge processed goods according to Claim 12, which is a method to manufacture and process hinge processed goods with injection mold method from PET resin raw material, wherein the temperature of the cylinder of the injection molding machine is set at 240 to 285 degrees centigrade, the speed of the injection is set at low to middle speed.
18. A manufacturing method of PET resin mold processed goods according to Claims 1, 2, 3, 4, 6, 7, 9 and 11, which is a method to form the hinge shape according to Claims 2, 3 or 4, and the pressed out material is shaped into convex and concave forms with vacuum molding method.
19. A manufacturing method of PET resin mold processed goods according to Claim 5, which is a method to form the hinge shape according to Claims 2, 3 or 4, and the pressed out material is shaped into convex and concave forms with vacuum molding method.

20. A manufacturing method of PET resin mold processed goods according to Claim 8, which is a method to form the hinge shape according to Claims 2, 3 or 4, and the pressed out material is shaped into convex and concave forms with vacuum molding method.
21. A manufacturing method of PET resin mold processed goods according to Claim 10, which is a method to form the hinge shape according to Claims 2, 3 or 4, and the pressed out material is shaped into convex and concave forms with vacuum molding method.
22. PET resin window glass utilizing PET resin raw material which has improved features of fluidity, transparency and shockproof properties due to co-polymerization and compound technology, made into resin window glass with injection molding, having special features of wave shapes, vertical combination deformed windows, with patterns and designs, or with embossed characters utilizing the features of injection molding.
23. PET resin window glass according to Claim 9 wherein the window frame, the handle, and the lock parts are all made together with the window as one solid mold.
24. PET resin light shade utilizing PET resin raw material which has improved features of fluidity, transparency and shockproof properties due to co-polymerization and compound technology, made into PET resin light shade with injection molding, having special features of high freedom of design aspect, good shockproof properties, high transparency, enabling mass production at affordable cost.
25. PET resin tableware utilizing PET resin raw material which has improved features of fluidity, transparency and shockproof properties due to co-polymerization and compound technology, made into PET resin tableware with injection molding, having special features of high freedom of design aspect, good shockproof properties, high transparency, enabling mass production at affordable cost.
26. PET resin roof tile utilizing PET resin raw material which has improved features of fluidity, transparency and shockproof properties due to co-polymerization and compound technology, made into PET resin roof tile with injection molding, having special features of high freedom of design aspect, good shockproof properties, high

transparency, enabling mass production at affordable cost.

27. PET resin transparent roof tile according to Claim 26, wherein an electrical generating solar panel is inserted and molded.
28. PET resin helmet utilizing PET resin raw material which has improved features of fluidity, transparency and shockproof properties due to co-polymerization and compound technology, made into PET resin helmet with injection molding, having special features of high freedom of design aspect, good shockproof properties, high transparency, enabling mass production at affordable cost.